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## WHAT IS CLAIMED IS:

- 1. A method of decompressing image data, the method comprising:
  - a) receiving a VQ encoded image;
  - b) decoding the VQ encoded image; and
- 5 c) performing output image color space processing in conjunction with the decoding.
  - The method of claim 1, wherein output image color space processing further comprises half-toning.
  - The method of claim 1, wherein output image color space processing further comprises color transformation.
- 4. The method of claim 1, wherein output image color space processing further comprises color transformation and half-toning.
  - The method of claim 1, wherein the VQ encoded image is in the luminance-chrominance color space.
  - 6. The method of claim 1, wherein the output image color space processing produces RGB data
  - The method of claim 1, wherein the output image color space processing produces CMYK data.
  - The method of claim 1, wherein the VQ encoded image is encoded with a codebook that is not a power of 2.
  - The method of claim 1, wherein the VQ decoding footprint is a subset of the halftone footprint.
  - 10. The method of claim 1, wherein the VQ encoded image is encoded through compression of a vector formed by data from multiple color components.
  - 11. An article including instructions in machine-readable form that, when executed, cause the machine to:
    - a) receive a VO encoded image;
    - b) decode the VQ encoded image; and
    - c) perform output image color space processing in conjunction with the decoding.

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## 12. A VQ decoder, comprising:

- a) at least one input path operable to receive VQ-encoded data;
- b) a lookup table operable to provide output values for a given input value;
- a processor operable to receive the VQ-encoded data and access the lookup table to acquire output values; and
- d) at least one output path operable to allow the processor to transmit the output values for further processing.